ABHISHEK SHARMA

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Skills _

- Programming languages: Java, JavaScript, C, C++
- Development frameworks and tools: React.js, Node.js, Express.js, SQL, MongoDB, Git

Education

National Institute of Technology Kurukshetra, India
 Oct'21 – Current

Computer Engineering, CGPA: 6.8677

Dronacharya public school, Faridabad
 Apr'19 – Apr'20

AISSCE (Class XII), Aggregate: 78.6%

Dronacharya public school, Faridabad
 Apr'17 – Apr'18

AISSCE (Class X), Aggregate: 86.6%

Projects _

• TunePorter: Cross-Platform Playlist Conversion Tool (Link)

June' 23 - July' 23

Developed a YouTube-to-Spotify Playlist Converter, allowing users to convert their YouTube playlists into Spotify playlists with help of APIs to fetch and migrate playlists into Spotify accounts.

- Built an interactive frontend using React.js, providing a seamless user experience for playlist migration.
- Engineered a scalable backend using Node.js and Express.js to handle high-volume API requests efficiently.
- Achieved 100% song match accuracy in most cases and ~70% accuracy in edge cases through an optimized song-matching algorithm.
- Integrated OAuth2 authentication for secure playlist access, enhancing data privacy and user trust.
- Shortify: URL Shortener Web Application (<u>Link</u>)

April' 25 - April' 25

DevelopedDesigned and developed a URL shortening service using Node.js, Express.js, and EJS for server-side rendering..

- Implemented unique short code generation and redirection logic with persistent database mapping.
- Integrated MongoDB Atlas for scalable cloud-based storage of original and shortened URLs.
- Built a responsive frontend using EJS templates, ensuring a smooth user experience across devices.

Research Work

- Machine Learning-Driven DDoS Detection & mitigation in Software-Defined Networks
 Feb'23 May'23

 Engineered a comprehensive framework for real-time detection and mitigation of DDoS attacks in Software-Defined Networking (SDN) environments, improving network security and reliability.
 - Implemented and benchmarked multiple machine learning algorithms, including SVM, Random Forest, KNN, and LSTM, achieving up to 97.5% detection accuracy with optimized feature sets.
 - Leveraged SDN architecture using Ryu controller for dynamic traffic management and rapid threat response, demonstrating the synergy between SDN and ML for network security.
 - Utilized Python with libraries such as scikit-learn and TensorFlow to build and train models on a custom SDN traffic dataset, improving detection speed and reducing false positives.

Position of Responsibility_

Colors Mental Health Awareness Club | Graphic Designer

Jun'22 - Jan'23

- Collaborated with cross-functional teams to develop and execute a cohesive brand identity for social media campaigns, driving audience growth and event participation.
- Utilized A/B testing to optimize graphic designs and messaging, resulting in a 40% increase in audience interaction and engagement.